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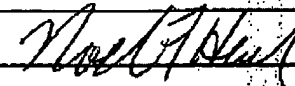
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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/628,679 719	RECEIVED CENTRAL FAX CENTER OCT 04 2004
	Filing Date	July 28, 2003	
	First Named Inventor	Quenth P. Harr	
	Art Unit	2814	
	Examiner Name	Long Pham	
Total Number of Pages in This Submission	3	Attorney Docket Number	12-1143

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Date	October 4, 2004	Reg. No.	28,074

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Docket No. 12-1143

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Quentin P. Herr

Serial No.: 10/628,779

Filed: July 28, 2003

For: SUPERCONDUCTING DIGITAL
FIRST-IN FIRST-OUT BUFFER
USING NOVEL BACK
PRESSURE MECHANISM

Examiner: Long Pham

Group Art Unit: 2814

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Noel F. Heal

Signature RESPONSE TO RESTRICTION REQUIREMENTCommissioner for Patents
P.O. Box 1450
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Sir:

In the Office action mailed September 14, 2004, the Examiner states that the "application contains claims directed to the following patentably distinct species of the claimed invention: species I: first embodiment, fig. 1 and species II: second embodiment, fig. 4 of this application."

In response to the requirement to elect one of these species, Applicant provisionally elects Species I (FIG. 1), but respectfully traverses the requirement.

Application No. 10/628779

Docket No. 12-1143

Claims 1-20 all read on FIG. 1. However, claims 1-20 are also believed to read on FIG. 4, and are, therefore, believed to be generic claims. The distinguishing feature of the embodiment of FIG. 4 is the circuit 202, which includes an isolation inductor 204 and a Josephson junction 206, and serves to isolate the clock-storage circuit 214 from the data-storage circuit 216, as described in the specification (paragraph [0032]). At present, no claims are specifically directed to this feature, but Applicant may wish to add such claims, once the Examiner agrees that at least some of claims 1-20 are generic to both illustrated embodiments.

Reconsideration and withdrawal of the restriction requirement are respectfully requested.

Respectfully submitted,

Date: October 4, 2004


Noel F. Heal
Registration No. 26,074

Northrop Grumman Space Technology
Intellectual Asset Management
One Space Park, E1-2041
Redondo Beach, CA 90278
Telephone: (310) 812-4910
FAX: (310) 812-2687

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